

TESCAN and FEMTONICS invite you to a 1-day meeting on

New horizons in imaging of dynamic systems: Multiphoton and digital holographic microscopy in biomedical research

During this meeting, TESCAN and FEMTONICS will demonstrate recent advances and development of two rapidly emerging techniques for live cell imaging in biomedical research - multiphoton microscopy and digital holography.

FEMTONICS will present the company and the available products and also the latest two-photon microscopy technologies developed in 2015. The presentation will focus on the technical achievements and patented technologies used to create the Femto2D and Femto3D family. In parallel with the technical data we will highlight the important biological applications of these systems. Invited speaker, Balazs Chiovini will demonstrate how to use the Femto2D-UNCAGE microscope for the detection of *in vitro* network activity in hippocampal slices. The second invited speaker

will highlight the life-science application of Femto2D-Inverted microscopes.

TESCAN will introduce the latest version of the Q-PHASE microscope, a unique instrument dedicated to long-term observations of cellular behavior, morphology and dynamics with unprecedented clarity. The instrument is based on the TESCAN-patented technology of coherence-controlled holographic microscopy. This approach enables exact detection and quantification of cellular mass changes in real time without any labelling, even in turbid media. Since there is no halo effect in the phase images, the cellular boundaries and morphology can be easily visualized and segmented which is important for reliable cell analysis.

The workshop will be held on:

September 22nd 2015
at TESCAN ORSAY HOLDING Headquarters in Brno
Libušina třída 21, 623 00, Brno, Czech Republic

Preliminary program:

9³⁰ - 10⁰⁰ Registration

10⁰⁰ - 11⁴⁵	Femtonics presentations	12¹⁵ - 15³⁰	Tescan presentations
10 ⁰⁰ - 10 ¹⁵	Introduction and Product overview	12 ¹⁵ - 12 ³⁰	TESCAN Life Science: What's new?
10 ¹⁵ - 10 ³⁰	Applications of Two-Photon Microscopy	12 ³⁰ - 12 ⁵⁰	Invited Speaker: History of Q-PHASE technology
10 ³⁰ - 11 ⁰⁰	FEMTONICS, Balázs Chiovini	12 ⁵⁰ - 13 ¹⁰	TESCAN Q-PHASE and its versatile applications in Life Science Research
11 ⁰⁰ - 11 ³⁰	Invited Speakers – Two-Photon Microscopy in Life Science Research	13 ¹⁰ - 13 ³⁰	Invited Speaker: TESCAN Q-PHASE in Cancer Research
11 ³⁰ - 11 ⁴⁵	Q&A, Discussion	13 ³⁰ - 14 ⁰⁰	Discussion, Coffee break
11 ⁴⁵ - 12 ¹⁵	Lunch	14 ⁰⁰ - 15 ³⁰	Q-PHASE demonstration

Workshop participation is free of charge, number of participants is limited.

Please register via e-mail to drahomira.ctvrtlikova@tescan.cz before September 15th 2015